Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	1155	align\$8 with block with order	USPAT	OR	OFF	2005/07/09 17:00
L5	22	4 with code	USPAT	OR	OFF	2005/07/09 16:56
L6	19	align\$8 with (code adj1 block)	USPAT	OR	OFF	2005/07/09 17:14
L7	102	order\$3 near8 (code adj1 block)	USPAT	OR	OFF	2005/07/09 17:15
L8	261	order\$3 near8 (code adj1 block)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/09 17:15
L9	302	"difference file"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/09 17:15
L10	2	8 and 9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/09 17:23
L11	0	9 with block with order\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/09 17:17
L12	5	9 same block same order\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/09 17:17
S1	1360	LIS	USPAT	OR	OFF	2005/07/07 16:45
S2	20	S1 and naive	USPAT	OR	OFF	2005/07/07 16:45
S3	16	S2 and block	USPAT	OR	OFF ·	2005/07/07 16:49
S4	0	(largest or longest)adj1 increasing adj1 subsequence	USPAT	OR	OFF	2005/07/07 16:54
S5	1	(largest or longest) with increasing with subsequence	USPAT	OR	OFF	2005/07/07 17:01
S6	1021	byte near2 level	USPAT	OR	OFF	2005/07/07 17:04
S7	1177	"alignment algorithm"	USPAT	OR	OFF	2005/07/07 17:04
S8	32	"block swap"	USPAT	OR	OFF	2005/07/07 17:05
S9	15	S8 and difference	USPAT	OR	OFF	2005/07/07 17:10

S10	46	"delta file"	USPAT	OR	OFF	2005/07/07 17:10
S11	2	S10 and (S6 or S7)	USPAT	OR -	OFF	2005/07/07 17:48
S12	841	mov\$8 with code with block	USPAT	OR	OFF	2005/07/07 17:49
S13	9	S12 and (S6 or S7)	USPAT	OR	OFF	2005/07/07 17:53
S14	0	S7 and S6	USPAT	OR	OFF	2005/07/07 17:53
S15	744	(S7 or S6) and version	USPAT	OR	OFF	2005/07/07 17:54
S16	9	(S7 or S6) and (version with difference)	USPAT	OR	OFF .	2005/07/07 17:55
S19	15	"file differencing"	USPAT	OR	OFF	2005/07/08 15:38
S20	308	"file updating"	USPAT	OR	OFF	2005/07/08 15:38
S21	1	S19 and S20	USPAT	OR	OFF	2005/07/08 15:37
S22	46	"file differencing"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 15:38
S23	1116	"file updating"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 15:38
S24	18	S22 and S23	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 15:59
S25	3	S24 and swap\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 15:47

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S26	19	(US-20040098427-\$ or US-20050010576-\$ or US-20050010870-\$ or US-20050021572-\$ or US-20050091288-\$ or US-20040098421-\$ or US-20040098420-\$ or US-20040098413-\$ or US-20040098361-\$ or US-20040092255-\$ or US-20040062130-\$ or US-20040062130-\$ or US-20030212712-\$).did. or (US-6115710-\$ or US-6374250-\$ or US-6665787-\$ or US-6826626-\$ or US-6836657-\$ or US-5832520-\$).did.	US-PGPUB; USPAT	OR	OFF	2005/07/08 20:28
S27	1	S26 and align\$8	USPAT	OR	OFF	2005/07/08 15:57
S28	4	S24 and (align\$8 or swap\$5 or sort\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 16:01
S29	1	S28 and subsequence	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/08 16:03
S30	97	align\$8 with (code near3 block)	US-PGPUB; USPAT	OR	OFF	2005/07/08 20:28
S35	. 1	("6466999").PN.	USPAT; USOCR	OR	OFF	2005/07/09 15:08
S36	1	("5832520").PN.	USPAT; USOCR	OR	OFF	2005/07/09 15:08

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1 Fortran 8X draft

Loren P. Meissner

December 1989 ACM SIGPLAN Fortran Forum, Volume 8 Issue 4

Full text available: pdf(21.36 MB)

Additional Information: full citation, abstract, index terms

Standard Programming Language Fortran. This standard specifies the form and establishes the interpretation of programs expressed in the Fortran language. It consists of the specification of the language Fortran. No subsets are specified in this standard. The previous standard, commonly known as "FORTRAN 77", is entirely contained within this standard, known as "Fortran 8x". Therefore, any standard-conforming FORTRAN 77 program is standard conforming under this standard. New features can b ...

² A guided tour to approximate string matching

Gonzalo Navarro

March 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 1

Full text available: pdf(1.19 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

We survey the current techniques to cope with the problem of string matching that allows errors. This is becoming a more and more relevant issue for many fast growing areas such as information retrieval and computational biology. We focus on online searching and mostly on edit distance, explaining the problem and its relevance, its statistical behavior, its history and current developments, and the central ideas of the algorithms and their complexities. We present a number of experiments to ...

Keywords: Levenshtein distance, edit distance, online string matching, text searching allowing errors

Compactly encoding unstructured inputs with differential compression Miklos Aitai, Randal Burns, Ronald Fagin, Darrell D. E. Long, Larry Stockmeyer May 2002 Journal of the ACM (JACM), Volume 49 Issue 3

Full text available: pdf(348.32 KB)

Additional Information: full citation, abstract, references, citings, index

The subject of this article is differential compression, the algorithmic task of finding common strings between versions of data and using them to encode one version compactly by describing it as a set of changes from its companion. A main goal of this work is to present new differencing algorithms that (i) operate at a fine granularity (the atomic unit of change), (ii) make no assumptions about the format or alignment of input data, and (iii) in practice use linear time, use constant spa ...

Keywords: Delta compression, differencing, differential compression

4 The Quadtree and Related Hierarchical Data Structures

Hanan Samet

June 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 2

Full text available: pdf(4.87 MB) Additional Information: full citation, references, citings, index terms

5 Comparison of access methods for time-evolving data

Betty Salzberg, Vassilis J. Tsotras

June 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 2

Full text available: pdf(529.53 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

This paper compares different indexing techniques proposed for supporting efficient access to temporal data. The comparison is based on a collection of important performance criteria, including the space consumed, update processing, and query time for representative queries. The comparison is based on worst-case analysis, hence no assumptions on data distribution or query frequencies are made. When a number of methods have the same asymptotic worst-case behavior, features in the methods tha ...

Keywords: I/O performance, access methods, structures, temporal databases

6 Locality phase prediction

Xipeng Shen, Yutao Zhong, Chen Ding

October 2004 Proceedings of the 11th international conference on Architectural support for programming languages and operating systems, Volume 38, 39, 32 Issue 5, 11, 5

Full text available: pdf(739.91 KB) Additional Information: full citation, abstract, references, index terms

As computer memory hierarchy becomes adaptive, its performance increasingly depends on forecasting the dynamic program locality. This paper presents a method that predicts the locality phases of a program by a combination of locality profiling and run-time prediction. By profiling a training input, it identifies locality phases by sifting through all accesses to all data elements using variable-distance sampling, wavelet filtering, and optimal phase partitioning. It then constructs a phase hiera ...

Keywords: dynamic optimization, locality analysis and optimization, phase hierarchy, program phase analysis and prediction, reconfigurable architecture

Optimal placement of high-probability randomly retrieved blocks on CLV optical discs
Daniel Alexander Ford, Stavros Christodoulakis

January 1991 ACM Transactions on Information Systems (TOIS), Volume 9 Issue 1

Full text available: pdf(1.64 MB)

Additional Information: full citation,

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>, <u>review</u>

Optimal data placement on a CLV (Constant Linear Velocity) format optical discs has an objective the minimization of the expected access cost of data retrievals from the disc when the probabilities of access of data items may be different. The problem of optimal data placement for optical discs is both important and more difficult than the corresponding problem on magnetic discs. A good data placement on optical discs is more important because data sets on optical discs such as WORM and CD ...

Keywords: management, performance



Compiling nested data-parallel programs for shared-memory multiprocessors Siddhartha Chatteriee

July 1993 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 15 Issue 3

Full text available: pdf(4.17 MB)

Additional Information: full citation, references, citings, index terms, review

Keywords: compilers, data parallelism, shared-memory multiprocessors

Bioinformatics—an introduction for computer scientists

Jacques Cohen

June 2004 ACM Computing Surveys (CSUR), Volume 36 Issue 2

Full text available: pdf(261.56 KB) Additional Information: full citation, abstract, references, index terms

The article aims to introduce computer scientists to the new field of bioinformatics. This area has arisen from the needs of biologists to utilize and help interpret the vast amounts of data that are constantly being gathered in genomic research---and its more recent counterparts, proteomics and functional genomics. The ultimate goal of bioinformatics is to develop in silico models that will complement in vitro and in vivo biological experiments. The article provides a bird's eye view of the ...

Keywords: DNA, Molecular cell biology, RNA and protein structure, alignments, cell simulation and modeling, computer, dynamic programming, hidden-Markov-models, microarray, parsing biological sequences, phylogenetic trees

10 Vclusters: a flexible, fine-grained object clustering mechanism

Mark L. Mcauliffe, Michael J. Carey, Marvin H. Solomon

October 1998 ACM SIGPLAN Notices, Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications, Volume 33 Issue 10

Full text available: pdf(2.07 MB)

Additional Information: full citation, abstract, references

We consider the problem of delivering an effective fine-grained clustering tool to implementors and users of object-oriented database systems. This work emphasizes on-line clustering mechanisms, as contrasted with earlier work that concentrates on clustering policies (deciding which objects should be near each other). Existing on-line clustering methods can be ineffective and/or difficult to use and may lead to poor space utilization on disk and in the disk block cache, particular ...

11 Online algorithms for locating checkpoints

M. Bern, D. H. Greene, A. Raghunathan, M. Sudan

April 1990 Proceedings of the twenty-second annual ACM symposium on Theory of computing

Full text available: pdf(957.37 KB) Additional Information: full citation, references, index terms

12 A survey of adaptive sorting algorithms

Vladmir Estivill-Castro, Derick Wood

December 1992 ACM Computing Surveys (CSUR), Volume 24 Issue 4

Full text available: pdf(2.92 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The design and analysis of adaptive sorting algorithms has made important contributions to both theory and practice. The main contributions from the theoretical point of view are: the description of the complexity of a sorting algorithm not only in terms of the size of a problem instance but also in terms of the disorder of the given problem instance; the establishment of new relationships among measures of disorder; the introduction of new





























sorting algorithms that take advantage of the exis ...

Keywords: adaptive sorting algorithms, comparison trees, measures of disorder, nearly sorted sequences, randomized algorithms

13 Code optimization techniques for embedded DSP microprocessors Stan Liao, Srinivas Devadas, Kurt Keutzer, Steve Tjiang, Albert Wang January 1995 Proceedings of the 32nd ACM/IEEE conference on Design automation



Full text available: pdf(121.23 KB) Additional Information: full citation, references, citings, index terms

Keywords: code generation, digital signal processors, optimization

14 Combinatorial techniques for mixed-size placement

S. N. Adya, I. L. Markov

January 2005 ACM Transactions on Design Automation of Electronic Systems (TODAES), Volume 10 Issue 1

Full text available: pdf(1.80 MB) Additional Information: full citation, abstract, references, index terms

While recent literature on circuit layout addresses large-scale standard-cell placement, the authors typically assume that all macros are fixed. Floorplanning techniques are very good at handling macros, but do not scale to hundreds of thousands of placeable objects. Therefore we combine floorplanning techniques with placement techniques to solve the more general placement problem. Our work shows how to place macros consistently with large numbers of small standard cells. Proposed techniques can ...

Keywords: VLSI, floorplanning, placement

¹⁵ Algorithm 806: SPRNG: a scalable library for pseudorandom number generation Michael Mascagni, Ashok Srinivasan September 2000 ACM Transactions on Mathematical Software (TOMS), Volume 26 Issue 3



Full text available: pdf(158.69 KB)

Additional Information: full citation, abstract, references, citings, index terms

In this article we present background, rationale, and a description of the Scalable Parallel Random Number Generators (SPRNG) library. We begin by presenting some methods for parallel pseudorandom number generation. We will focus on methods based on parameterization, meaning that we will not consider splitting methods such as the leap-froq or blocking methods. We describe, in detail, parameterized versions of the following pseudorandom number generators: (i) linear congruential generators, ...

Keywords: lagged-Fibonacci generator, linear congruential generator, parallel randomnumber generators, random-number software, random-number tests

16 Reconfigurable, retargetable bignums: a case study in efficient, portable Lisp system building



Jon L. White

August 1986 Proceedings of the 1986 ACM conference on LISP and functional programming

Full text available: pdf(1.70 MB) Additional Information: full citation, references, citings

17 Floorplanning: Are floorplan representations important in digital design? Hayward H. Chan, Saurabh N. Adya, Igor L. Markov



April 2005 Proceedings of the 2005 international symposium on physical design

Full text available: pdf(855.57 KB) Additional Information: full citation, abstract, references, index terms

Research in floorplanning and block-packing has generated a variety of data structures to represent spatial configurations of circuit modules. Much of this work focuses on the geometry of module shapes and seeks tighter packing, as well as improvements in the asymptotic worst-case complexity of algorithms for standard tasks. In this work we consider the implications of interconnect optimization on the value of floorplan representations and establish a framework for comparing different representa ...

Keywords: B*-tree, circuit layout, floorplanning, sequence pair

18 Research track papers: Mining, indexing, and querying historical spatiotemporal data Nikos Mamoulis, Huiping Cao, George Kollios, Marios Hadjieleftheriou, Yufei Tao, David W. Cheung

August 2004 Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining

Full text available: pdf(347.95 KB) Additional Information: full citation, abstract, references, index terms

In many applications that track and analyze spatiotemporal data, movements obey periodic patterns; the objects follow the same routes (approximately) over regular time intervals. For example, people wake up at the same time and follow more or less the same route to their work everyday. The discovery of hidden periodic patterns in spatiotemporal data, apart from unveiling important information to the data analyst, can facilitate data management substantially. Based on this observation, we propose ...

Keywords: indexing, pattern mining, spatiotemporal data, trajectories

19 A unifying framework for distributed simulation

R. Bagrodia, K. M. Chandy, Wen Toh Liao

October 1991 ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 1 Issue 4

Full text available: pdf(2.34 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

A theory of distributed simulation applicable to both discrete-event and continuous simulation is presented. It derives many existing simulation algorithms from the theory and describes an implementation of a new algorithm derived from the theory. A high-level discrete-event simulation language has been implemented, using the new algorithm, on parallel computers; performance results of the implementation are also presented.

20 Editing by example

Robert Nix

January 1984 Proceedings of the 11th ACM SIGACT-SIGPLAN symposium on Principles of programming languages

Full text available: pdf(1.04 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

An editing by example system is an automatic program synthesis facility embedded in a text editor that can be used to solve repetitive text editing problems. The user provides the editor with a few examples of a text transformation. The system analyzes the examples and generalizes them into a program that can perform the transformation to the rest of the user's text. This paper presents the design, analysis, and implementation of a practical editing by example system. In particul ...

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21 BANANAS: an evolutionary framework for explicit and multipath routing in the internet

H. Tahilramani Kaur, S. Kalyanaraman, A. Weiss, S. Kanwar, A. Gandhi

August 2003 ACM SIGCOMM Computer Communication Review, Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture.

Volume 33 Issue 4

Full text available: pdf(585.15 KB) Additional Information: full citation, abstract, references, citings

Today the Internet offers a single path between end-systems even though it intrinsically has a large multiplicity of paths. This paper proposes an evolutionary architectural framework "BANANAS" aimed at simplifying the introduction of multipath routing in the Internet. The framework starts with the observation that a path can be encoded as a short hash ("PathID") of a sequence of globally known identifiers. The PathID therefore has global significance (unlike MPLS or ATM labels). This property a ...

²² Editing by example

Robert P. Nix

October 1985 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 7 Issue 4

Full text available: pdf(1.79 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

An editing by example system is an automatic program synthesis facility embedded in a text editor that can be used to solve repetitive text editing problems. The user provides the editor with a few examples of a text transformation. The system analyzes the examples and generalizes them into a program that can perform the transformation to the rest of the user's text. This paper presents an overview of the design, analysis, and implementation of a practical editing by example system. It stud ...

23 Sequence alignment with tandem duplication

Gary Benson

January 1997 Proceedings of the first annual international conference on Computational molecular biology

Full text available: pdf(1.03 MB)

Additional Information: full citation, references, index terms

24 Parallel algorithms for personalized communication and sorting with an experimental study (extended abstract)

David R. Helman, David A. Bader, Joseph JáJá

June 1996 Proceedings of the eighth annual ACM symposium on Parallel algorithms and architectures

Full text available: pdf(1.12 MB)

Additional Information: full citation, references, citings, index terms

²⁵ Session 8C: Structural and algorithmic aspects of massive social networks Stephen Eubank, V. S. Anil Kumar, Madhav V. Marathe, Aravind Srinivasan, Nan Wang January 2004 Proceedings of the fifteenth annual ACM-SIAM symposium on Discrete algorithms

Full text available: pdf(632.06 KB) Additional Information: full citation, abstract, references

We study the algorithmic and structural properties of very large, realistic social contact networks. We consider the social network for the city of Portland, Oregon, USA, developed as a part of the TRANSIMS/EpiSims project at the Los Alamos National Laboratory. The most expressive social contact network is a bipartite graph, with two types of nodes: people and locations; edges represent people visiting locations on a typical day. Three types of results are presented. (i) Our empiri ...

26 Fabricating arrays of strings

J. Richard Bradley, Steven S. Skiena

January 1997 Proceedings of the first annual international conference on Computational molecular biology

Full text available: pdf(1.28 MB)

Additional Information: full citation, references, citings, index terms

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